

## Preparation method of memantine hydrochloride

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### Abstract of CN1400205

The preparation method of medicine for curing dementia, N-methyl-D-aspartic acid (NMDA) receptor antagonist memantine hydrochloride includes the following steps: using polybasic alcohol as solvent; making 1-bromo-3,5-dimethyl adamantane and urea according to the mole ratio of 1:0.25-10 react for 0.5-48 hr. at 20-200 deg.C; after the reaction is completed, adding sodium hydroxide into the reaction solution according to that the mole ratio of 1-bromo-3,5-dimethyl adamantane and sodium hydroxide is 1:0.1-10, making alcoholysis at 50-200 deg.C, chloroform extraction, concentration, acidification with hydrochloric acid and salt-forming so as to obtain the invented memantine hydrochloride. It features safe and simple operation and low cost, etc.

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